

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
19 February 2004 (19.02.2004)

PCT

(10) International Publication Number
WO 2004/015090 A2

- (51) International Patent Classification⁷: C12N 5/00
- (21) International Application Number:
PCT/CA2003/001191
- (22) International Filing Date: 11 August 2003 (11.08.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
2,397,376 9 August 2002 (09.08.2002) CA
- (71) Applicant (*for all designated States except US*): OT-
TAWA HEALTH RESEARCH INSTITUTE [CA/CA];
725 Parkdale Avenue, Ottawa, Ontario K1Y 4E9 (CA).
- (72) Inventor; and
- (75) Inventor/Applicant (*for US only*): GRIFFITH, May
[CA/CA]; 5741 Mitch Owens Road, Ottawa, Ontario K1X
1C3 (CA).
- (74) Agent: MBM & CO.; P.O. Box 809, Station B, Ottawa,
Ontario K1P 5P9 (CA).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— without international search report and to be republished
upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: INNERVATED ARTIFICIAL TISSUES AND USES THEREOF

(57) Abstract: A three dimensional, innervated artificial tissue comprising a bio-synthetic matrix is provided. The artificial tissue supports cell growth, including surface coverage and three-dimensional cell in-growth, as well as nerve in-growth. Methods of preparing the innervated artificial tissue and methods of innervating artificial tissues or tissue substitutes are also provided. The artificial tissue is useful for in vitro testing of various pharmaceutical, cosmetic and household products.

WO 2004/015090 A2